

## APPLICATION DATA SHEET

### APPLICATION INFORMATION

Application Type:: REGULAR  
Subject Matter:: UTILITY  
CD-ROM or CD-R?:: NONE  
Title:: COMPUTER PROGRAM PRODUCT,  
METHOD, AND SYSTEM OF  
DOCUMENT ANALYSIS  
Attorney Docket Number:: 220962US2S  
Total Drawing Sheets:: 7  
Small Entity?:: NO

### INVENTOR INFORMATION

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**Abstract** The purpose of this study was to determine whether the use of a computerized program could improve the accuracy of the measurement of the resting heart rate (HR) by means of a single-lead electrocardiogram (ECG). A total of 60 subjects were randomly selected from a population of 1800 students at the University of Zaragoza. Each subject underwent three measurements of HR by means of a single-lead ECG. The first two measurements were performed manually by two different observers, and the third measurement was performed by a computerized program. The results showed that the mean HR obtained by the computerized program was significantly lower than those obtained by manual observation ( $p < .001$ ). The interobserver agreement between the two manual observations was also significantly lower than the agreement between the manual observations and the computerized program ( $p < .001$ ). These findings suggest that the use of a computerized program can improve the accuracy of the measurement of the resting HR by means of a single-lead ECG.

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